



# Explorers Program Overview

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**2023 Astrophysics  
Probe Pre-Proposal Conference**

**Cathy Peddie  
Explorers Associate Deputy  
August 18, 2023**



# Explorers Program Overview (1 of 2)

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- NASA's oldest, continuous program
  - Over 100 successful missions since 1958
- Program Objective—Frequent flight opportunities for world-class scientific investigations
- Uncoupled program of missions with unique science capabilities supporting heliophysics and astrophysics science goals



# Explorers Program Overview (2 of 2)



- Mission class characterized by size, schedule, and budget cost caps
  - MINDEX
  - SMEX
  - Mission of Opportunity
- Missions solicited through Announcement of Opportunity
- Missions developed in Principal Investigator mode
- Mission oversight provided by the Explorers Program Office at GSFC



# Explorers Missions

## MIDEX



## SMEX



## UNEX • MO • INTERNATIONALS



Astrophysics Missions

Current Astrophysics Missions

Heliophysics Missions

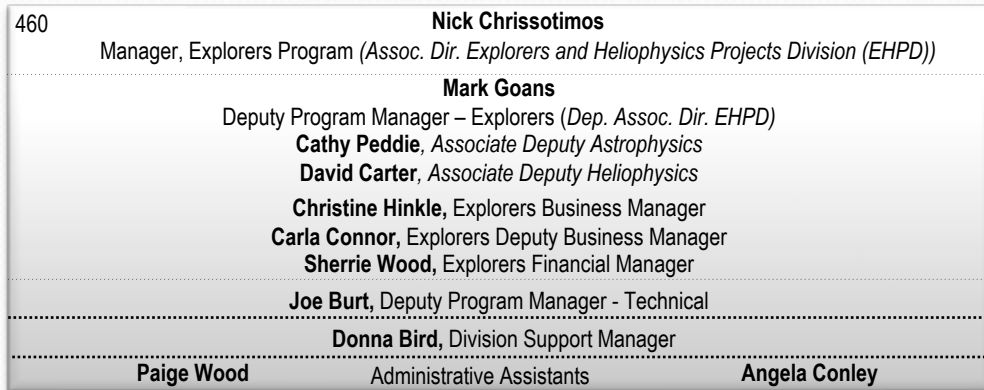
Current Heliophysics Missions



# Explorers Program Organization Chart



SMD  
Astrophysics & Heliophysics Divisions



**Systems Engineering**  
John Staren

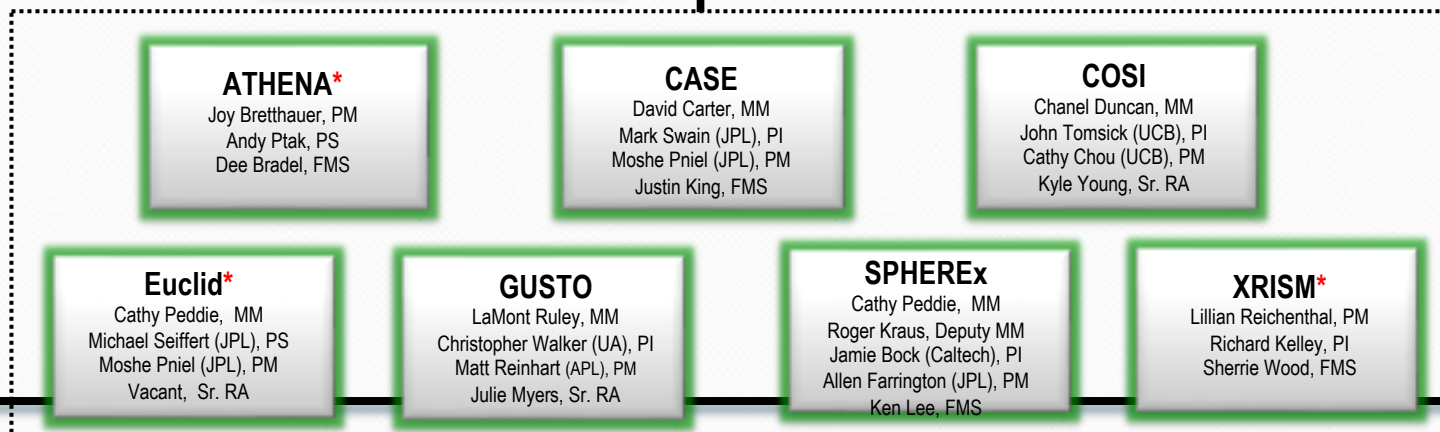
**Mission Assurance**  
Joe Calabrese

**Business Pool**  
Procurement | Proj. Support | Financial

**LV Liaison**  
Tom Jones

**Rideshare Office**  
Keith Chamberlin

Explorers/  
Astrophysics



\*Strategic Missions





# Explorers Program Organization Chart



SMD

Astrophysics & Heliophysics Divisions

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**Nick Chrissotimos**

Manager, Explorers Program (Assoc. Dir. Explorers and Heliophysics Projects Division (EHPD))

**Mark Goans**

Deputy Program Manager – Explorers (Dep. Assoc. Dir. EHPD)

**Cathy Peddie**, Associate Deputy Astrophysics

**David Carter**, Associate Deputy Heliophysics

**Christine Hinkle**, Explorers Business Manager

**Carla Connor**, Explorers Deputy Business Manager

**Sherrie Wood**, Explorers Financial Manager

**Joe Burt**, Deputy Program Manager - Technical

**Donna Bird**, Division Support Manager

**Paige Wood**

Administrative Assistants

**Angela Conley**

**Systems Engineering**

John Staren

**Mission Assurance**

Joe Calabrese

**Business Pool**

Procurement

Proj. Support

Financial

**LV Liaison**

Tom Jones

**Rideshare Office**

Keith Chamberlin

**Explorers/  
Heliophysics**

**AWE**

LaMont Ruley, MM  
Michael Taylor (USU), PI  
Burt Lamborn (SDL), PM  
Sherrie Wood, FMS

**ESCAPADE**

Glenn Iona, MM  
David Curtis (UCB), PI  
Robert Lillis, (UCB), PM  
Ben Shoster, FMS

**EUVST**

Jonathan Burroughs, MM  
Harry Warren (NRL), PI  
Don McMullin (NRL), PM  
Vacant, Sr. RA

**EZIE**

Ryan Turner, MM  
Jeng-Hwa Yee (APL), PI  
Nelofar Mosavi (APL), PM  
Jessica Hamill, Sr. RA

**HelioSwarm**

VACANT, MM  
Harlan Spence (UNH), PI  
Butler Hine (ARC), PM  
Carla Newman, Sr. RA

**MUSE**

Roberto Aleman, MM  
Bart DePontieu (LMATC), PI  
Gary Kushner (LMATC), PM  
Julie Myers, Sr. RA

**PUNCH**

Tyrone Dillard, MM  
Craig DeForest (SwRI), PI  
Ronnie Killough (SwRI), PM  
Ken Lee, FMS

**SunRISE**

Cathy Peddie, MM  
Roger Kraus, Deputy MM  
Justin Kasper (UMI), PI  
Jim Lux (JPL), PM  
Julie Myers, Sr. RA

**TRACERS**

David Carter, MM  
Keith Cleveland, Deputy MM  
Craig Kletzing (UI), PI  
Ron Black (SwRI), PM  
Justin King, FMS



# Explorers Program Office

## Roles/Responsibilities (1 of 2)

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- Support the Principal Investigator in achieving mission success and ensure that the mission complies with all applicable government and NASA-specific policies and regulations.
  - Provide comprehensive oversight of the mission development process by conducting ongoing assessments of the mission's cost, schedule and technical progress.
  - Provide mission status to NASA GSFC and HQ through monthly reviews, weekly reporting and timely notification of problems & resolution plans.
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# Explorers Program Office

## Roles/Responsibilities (2 of 2)

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- Coordinate the provision of certain services and equipment as required, such as space communication support, launch services, etc.
- Provide recommendations for the chair and membership of the Standing Review Board.
- Appoint a Mission Manager for full missions not managed by GSFC and all missions of opportunity.





# Mission Manager Roles/Responsibilities

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The Mission Manager will:

- Serve as the Goddard point of contact and the Contracting Officer's Representative or Task Monitor, as required.
  - Lead the GSFC engineering, mission assurance and business teams in obtaining detailed cost, schedule and technical insight to facilitate reporting to GSFC and HQ.
  - Provide access to the Goddard services and support as requested (e.g., EEE parts lab, board coupon testing, materials lab, SMA services and engineering services).
  - Ensure that adequate government resources are applied to the mission as required.
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# Explorers Program Team

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- Mission Manager
- Systems Engineer
- Instrument Systems Engineer
- Mission Assurance Lead
- Senior Resource Analyst
- Scheduling/Planning
- Configuration Management
  
- Other Program Support Available:
  - Instrument Systems
  - Electrical Systems
  - Mechanical Systems
  - Quality Engineering
  - System Safety
  - EVM Lead



# Available Goddard Services



- Available GSFC services include:
  - EEE parts testing
  - Radiation effects analysis/testing
  - Materials engineering support (includes board coupon testing)
  - Thermal coatings engineering support
  - Discipline engineering support
  - Space communications support
  - Instrument detector systems support
  - Tiger Team and Anomaly Review Team Support